ELSEVIER

Journal of Electroanalytical Chemistry 428 (1997) 195

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Author index

Aoki, K. 97

Barrera-Niebla, M. 57
Blázquez, M. 91
Boschloo, G.K. 25
Breiter, M.W. 141
Bukowska, J. 19

Cao, J. 97
Collomb Dunand-Sauthier, M.-N. 65
Cruz, C.M.G.S. 185
Cui, J. 39

De Ficquelmont-Loïzos, M.M. 129
Deronzier, A. 65
Dorta-Rodríguez, R. 57
Dunn, B. 141
Durakpasa, H. 141

Edwards, R.A.H. 113

Feng, Z.Q. 33
Funtikov, A.M. 147

Gautier, J.L. 47
González, J. 173
Goossens, A. 25
Gritzner, G. 73

Hernández-Luis, F. 57
Hobara, D. 33
Huang, Z.-X. 39

Iida, M. 33
Imabayashi, S.-i. 33

Jackowska, K. 19
Jovicevic, J.N. 113

Kakiuchi, T. 33
Kang, Q. 105
Kanté, W. 129
Kišová, L. 73

Lasia, A. 155
Laviron, E. 11
Lehmani, A. 81

Ma, C. 105
Macdonald, J.R. 1
Meunier-Prest, R. 11
Molina, A. 173

Niki, K. 33
Nkeng, P. 47

Palys, B.J. 19
Périé, J. 81
Périé, M. 81
Pineda, T. 91
Piterbarg, V.I. 1
Poillerat, G. 47

Qiu, J. 165

Radovic, B.S. 113
Ríos, E. 47
Román, A.J. 91

Schmickler, W. 123
Schoonman, J. 25
Sevilla, J.M. 91
Shen, D. 105
Simonin, J.-P. 81
Stimming, U. 147
Sun, Y.-L. 39

Takenouti, H. 129
Ticianelli, E.A. 185
Trollund, E. 47
Turq, P. 81

Vallat, A. 11
Villemure, G. 165
Vogel, R. 147

Wang, L. 105
Wang, Y.-H. 39

Xie, Y. 39

Yao, P. 39

Zhang, X. 105
Zhuang, J.-H. 39

ELSEVIER

Journal of Electroanalytical Chemistry 428 (1997) 197–199

JOURNAL OF ELECTROANALYTICAL CHEMISTRY

Subject index

A.c. behavior
Porous electrodes in the presence of a concentration gradient (Lasia) 155
Adsorption
Oscillation frequency characteristic of an electrode-separated piezoelectric sensor and application to the determination of the adsorption of a surfactant on a quartz surface (Shen et al.) 105
Aged gels
Impedance studies of the effects of solvent chemistry and solvent exchange on aged gels (Breiter et al.) 141
Alkanethiols
Reductive desorption of carboxylic-acid-terminated alkanethiol monolayers from Au(111) surfaces (Imabayashi et al.) 33
Alternating magnetic field
Capacitive-free a.c. impedance of polyaniline films by means of magnetically induced current (Aoki, Cao) 97
Aluminium
Aluminium underpotential deposition from $AlCl_3 + NaCl$ melts on gold electrodes (Radovic et al.) 113
Anion adsorption
Anion adsorption from sulfuric acid solutions on Pt(111) single crystal electrodes (Funtikov et al.) 147
Applications
A new semi-empirical equation that expresses the dependence of transference numbers on the concentration (Dorta-Rodríguez et al.) 57
Au(111) surface
Reductive desorption of carboxylic-acid-terminated alkanethiol monolayers from Au(111) surfaces (Imabayashi et al.) 33

Capacitance dispersion
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129
Carboxylic acid termination
Reductive desorption of carboxylic-acid-terminated alkanethiol monolayers from Au(111) surfaces (Imabayashi et al.) 33
Clay-modified electrodes
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
Cobalt
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
Colored random noise
On the transformation of colored random noise by the Kronig–Kramers integral transforms (Macdonald, Piterbarg) 1
Concentration dependence
A new semi-empirical equation that expresses the dependence of transference numbers on the concentration (Dorta-Rodríguez et al.) 57
Concentration gradient
Porous electrodes in the presence of a concentration gradient (Lasia) 155
Conductivity
Capacitive-free a.c. impedance of polyaniline films by means of magnetically induced current (Aoki, Cao) 97
Constant phase element
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129
Copper cobalt oxide
Characterization of thin $CuCo_2O_4$ films prepared by chemical spray pyrolysis. Study of their electrochemical stability by ex situ spectroscopic analysis (Gautier et al.) 47
Current–time function
Application of a current–time function of the form $I(t) = I_0 t^{\omega}$, $\omega \geq -1/2$ to hemispherical microelectrodes (Molina, González) 173
Cyclic growth conditions
Electrochemical and ellipsometric studies of polyaniline films grown under cycling conditions (Cruz, Ticianelli) 185
Cyclic voltammetry
The direct electrochemistry of cytochrome b_5 and its mutant proteins (Wang et al.) 39
Cytochrome b_5
The direct electrochemistry of cytochrome b_5 and its mutant proteins (Wang et al.) 39

D.c. behavior
Porous electrodes in the presence of a concentration gradient (Lasia) 155
1,8-Diaminonaphthalene
SERS of 1,8-diaminonaphthalene on gold, silver and copper electrodes. Polymerisation and complexes formed with the electrode material (Palys et al.) 19
Dipyridylethylene
The electrochemical reduction of 1,2-di(4-pyridyl)ethylene in an aqueous medium (Vallat et al.) 11
Double-layer capacitance
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129

Electroactive polymers
SERS of 1,8-diaminonaphthalene on gold, silver and copper electrodes. Polymerisation and complexes formed with the electrode material (Palys et al.) 19
Electrochemistry
The direct electrochemistry of cytochrome b_5 and its mutant proteins (Wang et al.) 39
Electrode impedance
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to

adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129
Electrode-separated
Oscillation frequency characteristic of an electrode-separated piezoelectric sensor and application to the determination of the adsorption of a surfactant on a quartz surface (Shen et al.) 105
Electrolyte electroreflection
Investigation of the potential distribution in porous nanocrystalline TiO_2 electrodes by electrolyte electroreflection (Boschloo et al.) 25
Electron transfer
Electron-transfer reactions across liquid|liquid interfaces (Schmickler) 123
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
Electro-oxidation
SERS of 1,8-diaminonaphthalene on gold, silver and copper electrodes. Polymerisation and complexes formed with the electrode material (Palys et al.) 19
Ellipsometry
Electrochemical and ellipsometric studies of polyaniline films grown under cycling conditions (Cruz, Ticianelli) 185
Error transformations
On the transformation of colored random noise by the Kronig–Kramers integral transforms (Macdonald, Piterbarg) 1
Eu^{3+}
Standard electrode reaction rates for Eu^{3+} in *N,N*-dimethylformamide (Kišová, Gritzner) 73

Frequency
Oscillation frequency characteristic of an electrode-separated piezoelectric sensor and application to the determination of the adsorption of a surfactant on a quartz surface (Shen et al.) 105

Gibbs energy of formation
Aluminium underpotential deposition from $AlCl_3 + NaCl$ melts on gold electrodes (Radovic et al.) 113
Glassy carbon rotating disc electrode
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129
Growth kinetics
Aluminium underpotential deposition from $AlCl_3 + NaCl$ melts on gold electrodes (Radovic et al.) 113

Hemispherical microelectrodes
Application of a current–time function of the form $I(t) = I_0 t^{\omega}$, $\omega \geq -1/2$ to hemispherical microelectrodes (Molina, González) 173
Hydrogen evolution reaction
Porous electrodes in the presence of a concentration gradient (Lasia) 155

Impedance spectroscopy
Impedance studies of the effects of solvent chemistry and solvent exchange on aged gels (Breiter et al.) 141
Intermetallic compounds
Aluminium underpotential deposition from $AlCl_3 + NaCl$ melts on gold electrodes (Radovic et al.) 113
Internal proton transfer
The electrochemical reduction of 1,2-di(4-pyridyl)ethylene in an aqueous medium (Vallat et al.) 11
Ion transport
Ion transport in Nafion® 117 membrane (Lehmani et al.) 81

Kronig–Kramers relations
On the transformation of colored random noise by the Kronig–Kramers integral transforms (Macdonald, Piterbarg) 1

Layered double hydroxide films
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
Liquid|liquid interfaces
Electron-transfer reactions across liquid|liquid interfaces (Schmickler) 123

Magnetic effects
Capacitive-free a.c. impedance of polyaniline films by means of magnetically induced current (Aoki, Cao) 97
Manganese
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
Manganese complexes
Indirect routes for electrochemical modification of electrode surfaces by μ-oxo binuclear manganese complexes (Collomb Dunand-Sauthier, Deronzier) 65
Membrane
Ion transport in Nafion® 117 membrane (Lehmani et al.) 81
Mixed oxides
Characterization of thin $CuCo_2O_4$ films prepared by chemical spray pyrolysis. Study of their electrochemical stability by ex situ spectroscopic analysis (Gautier et al.) 47
Modified electrode
Indirect routes for electrochemical modification of electrode surfaces by μ-oxo binuclear manganese complexes (Collomb Dunand-Sauthier, Deronzier) 65
Monolayers
Reductive desorption of carboxylic-acid-terminated alkanethiol monolayers from Au(111) surfaces (Imabayashi et al.) 33
Mutation
The direct electrochemistry of cytochrome b_5 and its mutant proteins (Wang et al.) 39

Nafion® 117
Ion transport in Nafion® 117 membrane (Lehmani et al.) 81
Nickel
Anionic clay modified electrodes: electron transfer mediated by electroactive nickel, cobalt or manganese sites in layered double hydroxide films (Qiu, Villemure) 165
N,N-dimethylformamide
Standard electrode reaction rates for Eu^{3+} in *N,N*-dimethylformamide (Kišová, Gritzner) 73
Numerical model
Porous electrodes in the presence of a concentration gradient (Lasia) 155
Numerical modelling
Electron-transfer reactions across liquid|liquid interfaces (Schmickler) 123

Piezoelectric
Oscillation frequency characteristic of an electrode-separated piezoelectric sensor and application to the determination of the adsorption of a surfactant on a quartz surface (Shen et al.) 105
Platinum microelectrodes
Voltammetry of polyprotic acids at platinum microelectrodes: reduction of pyridoxal-5′-phosphate (Sevilla et al.) 91
Polyanaline
Electrochemical and ellipsometric studies of polyaniline films grown under cycling conditions (Cruz, Ticianelli) 185
Polyaniline films
Capacitive-free a.c. impedance of polyaniline films by means of magnetically induced current (Aoki, Cao) 97
Polymeric films
Indirect routes for electrochemical modification of electrode surfaces

by μ-oxo binuclear manganese complexes (Collomb Dunand-Sauthier, Deronzier) 65
Polymers
Capacitive-free a.c. impedance of polyaniline films by means of magnetically induced current (Aoki, Cao) 97
Polyprotic acids
Voltammetry of polyprotic acids at platinum microelectrodes: reduction of pyridoxal-5′-phosphate (Sevilla et al.) 91
Porous electrodes
Porous electrodes in the presence of a concentration gradient (Lasia) 155
Porous nanocrystalline electrodes
Investigation of the potential distribution in porous nanocrystalline TiO_2 electrodes by electrolyte electroreflection (Boschloo et al.) 25
Potential dependence
Electron-transfer reactions across liquid|liquid interfaces (Schmickler) 123
Potential distribution
Investigation of the potential distribution in porous nanocrystalline TiO_2 electrodes by electrolyte electroreflection (Boschloo et al.) 25
Power law
Application of a current–time function of the form $I(t) = I_0 t^{\omega}$, $\omega \geq -1/2$ to hemispherical microelectrodes (Molina, González) 173
Protein adsorption
Long-time and short-time investigation of the electrode interface through electrochemical impedance measurements. Application to adsorption of human serum albumin onto glassy carbon rotating disc electrode (De Ficquelmont-Loïzos et al.) 129
Pt(111) electrode
Anion adsorption from sulfuric acid solutions on Pt(111) single crystal electrodes (Funtikov et al.) 147

Reaction rate
Standard electrode reaction rates for Eu^{3+} in *N,N*-dimethylformamide (Kišová, Gritzner) 73
Reduction
Standard electrode reaction rates for Eu^{3+} in *N,N*-dimethylformamide (Kišová, Gritzner) 73
Voltammetry of polyprotic acids at platinum microelectrodes: reduction of pyridoxal-5′-phosphate (Sevilla et al.) 91
Reduction mechanism
The electrochemical reduction of 1,2-di(4-pyridyl)ethylene in an aqueous medium (Vallat et al.) 11
Reductive desorption
Reductive desorption of carboxylic-acid-terminated alkanethiol monolayers from Au(111) surfaces (Imabayashi et al.) 33

Scanning tunnelling microscopy
Anion adsorption from sulfuric acid solutions on Pt(111) single crystal electrodes (Funtikov et al.) 147
SERS
SERS of 1,8-diaminonaphthalene on gold, silver and copper electrodes. Polymerisation and complexes formed with the electrode material (Palys et al.) 19
Single electrolyte solution
A new semi-empirical equation that expresses the dependence of transference numbers on the concentration (Dorta-Rodríguez et al.) 57
Sol–gel materials
Impedance studies of the effects of solvent chemistry and solvent exchange on aged gels (Breiter et al.) 141
Solvent exchange
Impedance studies of the effects of solvent chemistry and solvent exchange on aged gels (Breiter et al.) 141
Spectroelectrochemistry
The direct electrochemistry of cytochrome b_5 and its mutant proteins (Wang et al.) 39
Spinel
Characterization of thin $CuCo_2O_4$ films prepared by chemical spray pyrolysis. Study of their electrochemical stability by ex situ spectroscopic analysis (Gautier et al.) 47
Spray pyrolysis
Characterization of thin $CuCo_2O_4$ films prepared by chemical spray pyrolysis. Study of their electrochemical stability by ex situ spectroscopic analysis (Gautier et al.) 47
Standard electrode
Standard electrode reaction rates for Eu^{3+} in *N,N*-dimethylformamide (Kišová, Gritzner) 73
Sulphate
Anion adsorption from sulfuric acid solutions on Pt(111) single crystal electrodes (Funtikov et al.) 147

Thin films
Characterization of thin $CuCo_2O_4$ films prepared by chemical spray pyrolysis. Study of their electrochemical stability by ex situ spectroscopic analysis (Gautier et al.) 47
TiO_2 electrodes
Investigation of the potential distribution in porous nanocrystalline TiO_2 electrodes by electrolyte electroreflection (Boschloo et al.) 25
Transference numbers
A new semi-empirical equation that expresses the dependence of transference numbers on the concentration (Dorta-Rodríguez et al.) 57

Underpotential deposition
Aluminium underpotential deposition from $AlCl_3 + NaCl$ melts on gold electrodes (Radovic et al.) 113

Voltammetry
Voltammetry of polyprotic acids at platinum microelectrodes: reduction of pyridoxal-5′-phosphate (Sevilla et al.) 91